

# MONTHLY WEATHER REVIEW,

## APRIL, 1875.

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WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE

### INTRODUCTORY.

The present weather review expresses the main features of the April meteorology, as deduced from the following reports and records :

Reports from 88 Stations of the United States Signal Service.

Reports from 10 Stations of the Canadian Meteorological Service.

Reports from 267 Volunteer Observers.

Reports from 1 United States Naval Hospital.

Reports from 27 United States Army Surgeons.

Records furnished by Private Observers, Marine Logs and the Press.

The most noteworthy peculiarities of the weather are as follows : (1) The extraordinary and almost universal continuation of the cold weather. (2) The frequency, lateness and destructiveness of the April frosts. (3) The lateness of the rivers and lakes in opening to navigation. (4) The unusually high range of the barometer. (5) The unusually large quantities of drift-ice and enormous icebergs off the Atlantic coasts.

### ATMOSPHERIC PRESSURE.

The graphic Chart No. II shows the average atmospheric pressure by the isobaric lines in *black*. The monthly phenomena of pressure, as indicated by the barometer, are grouped below under the heads of *Areas of High Barometer* and *Areas of Low Barometer*.

(1) *Areas of High Barometer*.—Of these, eight are noteworthy, as intimately connected with the controlling features of the month's meteorology. Some of these high barometers reached the figures 30.50 inches, and they were attended by severe cold, killing frosts and snow. They have served to make the average barometric range for April higher than the normal range, or that which is the mean of many years' observations. The following details give the time, progress and effects of the different high barometers :

*First*. A high barometer prevailed over the larger portion of the Gulf States during the first three days of April, being central on the 3d in southeastern Louisiana. It was attended by low temperature on the 1st and 2d, and by heavy rain on the 1st.